

Amendments to the Specification

- 1) Please replace the title at page 1, line 1, with the following:
- ~~METHOD FOR GENERATION OF A SYNTHESIS GAS MIXTURE CO-H₂~~
~~UNDER PRESSURE BY CATALYTIC PARTIAL OXIDATION WITH~~
~~MINIMIZATION OF THE FORMATION OF SOOT~~
METHOD FOR THE GENERATION OF SYNTHESIS GAS BY CATALYTIC
PARTIAL OXIDATION

- 2) Please delete the text found at page 1, lines 5 – 11.

- 3) Please insert the following subtitle at page 1, line 12:
- Background**

- 4) Please insert the following subtitle and text at page 5, line 19:
- Summary**

The present invention relates to the field of methods for producing a gas mixture containing at least hydrogen (H₂) and carbon monoxide (CO) from at least one hydrocarbon, in which a partial catalytic oxidation of at least one hydrocarbon is carried out in the presence of oxygen or of a gas comprising oxygen, to produce a mixture of hydrogen and carbon monoxide.

- 5) Please insert the following subtitle and text at page 6, line 22:
- Brief Description of the Drawings**

For a further understanding of the nature and objects for the present invention, reference should be made to the following detailed description, taken in conjunction with the accompanying drawings, in which like elements are given the same or analogous reference numbers and wherein:

- Figure 1 illustrates a schematic representation of a typical hydrogen production installation; and
- Figure 2 illustrates a schematic representation, according to one embodiment of the current invention, of a hydrogen production installation.

- 6) Please insert the following subtitle and text after the above-inserted paragraphs:
- Description of Preferred Embodiments**

The present invention relates to the field of methods for producing a gas mixture containing at least hydrogen (H₂) and carbon monoxide (CO) from at least one hydrocarbon, in which a partial catalytic oxidation of at least one hydrocarbon

is carried out in the presence of oxygen or of a gas comprising oxygen, to produce a mixture of hydrogen and carbon monoxide.

7) Please delete the text found at page 10, lines 8 – 16.

8) Please insert the following paragraph at page 11, line 38:

It will be understood that many additional changes in the details, materials, steps and arrangement of parts, which have been herein described in order to explain the nature of the invention, may be made by those skilled in the art within the principle and scope of the invention as expressed in the appended claims. Thus, the present invention is not intended to be limited to the specific embodiments in the examples given above.

9) Please replace the subtitle at page 12, line 1, with the following text:

CLAIMS What is claimed is: